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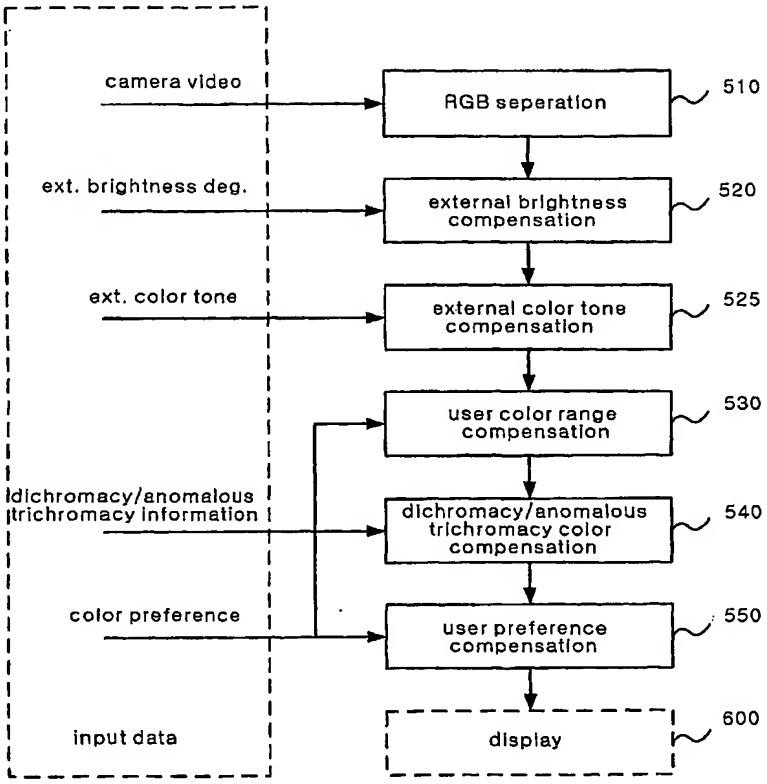
(54) Title: METHOD AND APPARATUS FOR CAR EQUIPPED COLOR COMPENSATION FOR COLOR BLINDNESS



(57) Abstract: The present invention relates to a method and apparatus for clearly detecting color information in front of a vehicle, and an object of the present invention is to accurately and efficiently show color-related traffic information, such as traffic lights and signs, and the whole color information of objects to color-blind people including people with dichromacy or anomalous trichromacy. The present invention provides a method of compensating for the colors of video frame data provided by a front camera, which includes the steps of compensating the video frame data, which is output from the camera, for external environment, such as surrounding colors and brightness, selecting a color range preferred by a user, compensating for the colors of the color-compensated video frame data according to the user's color blindness degree that was input or will be input, and transmitting external scenes, such as the front scene of the vehicle, to the user using a user interface considering user preference.

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